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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/781,585

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Akira Ishida

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7590

08/09/2005

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

Suite 600

1050 Connecticut Avenue, N.W.

Washington, DC 20036-5339

EXAMINER

YUN, EUGENE

ART UNIT

PAPER NUMBER

2682

DATE MAILED: 08/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/781,585	Applicant(s) ISHIDA, AKIRA	
	Examiner Eugene Yun	Art Unit 2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hakkinen et al. (US 2001/0023185) in view of Nakano (5,933,782).

Referring to Claim 1, Hakkinen teaches a radio base station (fig. 2) for performing a radio communication with a plurality of mobile stations with a space division multiplex method (paragraphs [0015] and [0022]).

Hakkinen does not teach transmitting, when the radio base station starts a communication with a mobile station by the space division multiplex method, an instruction to stop performing a diversity reception to the mobile station. Nakano teaches transmitting, when the radio base station starts a communication with a mobile station by the space division multiplex method (see col. 9, lines 18-24), an instruction to stop performing a diversity reception to the mobile station (see the row labeled (4) in fig. 16 and col. 9, lines 32-38). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Nakano to said device of Hakkinen in order to maintain efficiency in RF communications and prevent the raising of bit rate.

Referring to Claim 2, Hakkinen also teaches a creation means for creating a piece of traffic channel assignment information after receiving a traffic channel assignment request from a mobile station (see paragraph [0033]);

An attachment means for attaching the diversity reception stop instruction to the piece of traffic channel assignment information (see paragraph [0040]) and

A transmission means for transmitting the piece of traffic channel assignment information with the diversity reception stop instruction, to the mobile station as a response to the traffic channel assignment request (see paragraph [0040]).

Referring to Claim 3, Hakkinen teaches a determination means for determining, after receiving a traffic channel assignment request from a mobile station, whether to allow the mobile station to space division multiplex with another mobile station which has communicated with the radio base station (see paragraphs [0015] and the second half of paragraph [0026]);

a creation means for creating a piece of traffic channel assignment information when the determination means determines to allow the mobile station to space division multiplex with the other mobile station (see paragraph [0015]);

An attachment means for attaching the diversity reception stop instruction to the piece of traffic channel assignment information (see paragraphs [0022] and [0040]) and

A transmission means for transmitting the piece of traffic channel assignment information with the diversity reception stop instruction, to the mobile station as a response to the traffic channel assignment request, and transmitting the diversity

Art Unit: 2682

reception stop instruction to the other mobile station through a traffic channel (see paragraphs [0033] and [0040]).

Response to Arguments

3. Applicant's arguments filed 6/22/2005 have been fully considered but they are not persuasive.

Firstly, it is believed by the examiner that the step of "transmitting an instruction to stop performing a diversity reception to the mobile station" by the base station is very clearly shown in the above cited passages of the Nakano reference. The applicant amends the claim to state "transmitting, when the radio base station starts a communication with a mobile station by the space division multiplex method, an instruction to stop performing a diversity reception to the mobile station" in order to overcome the combination of the Hakkinen and Nakano references. Communication in the space division multiplex method can simply mean communicating with a plurality of different mobile stations or base stations or both at the same time until the best connection is made. The mobile station in the Nakano reference communicates with two base stations and the base station control station at the same time until the best connection is made in which the base station control station transmits an instruction to stop diversity reception and the mobile station then only communicates with one base station. The above explanation is believed by the examiner to be very similar as what is claimed by the applicant.

Art Unit: 2682

Therefore, the examiner still believes that the combination of the Hakkinen reference and the Nakano reference reads on the applicant's claimed invention.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Yun whose telephone number is (571) 272-7860. The examiner can normally be reached on 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro can be reached on (571) 272-7876. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2682

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Eugene Yun
Examiner
Art Unit 2682

EY.


NICK CORSARO
PRIMARY EXAMINER